

### **ABSTRACT**

The present invention relates to the inhalation delivery of aerosols containing small particles. Specifically, it relates to the delivery of drug containing aerosols having particles with a mass median aerodynamic diameter less than 1  $\mu$  for inhalation therapy. In an aspect of the present invention the drug containing aerosol comprises particles having a mass median aerodynamic diameter between 10 nm and 1  $\mu$ . Preferably, the particles have a mass median aerodynamic diameter between 10 nm and 900 nm. More preferably, the particles have a mass median aerodynamic diameter between 10 nm and 800 nm, 10 nm and 700 nm, 10 nm and 600 nm, 10 nm and 500 nm, 10 nm and 400 nm, 10 nm and 300 nm, 10 nm and 200 nm, or 10 nm and 100 nm.